

ESHS 40-160/40/P26PSSA

Technical data

Company name
Contact
Phone number
e-mail address

Operating data						
1	Pumpe type	Single head pump		Fluid	Water, pure	
2	No. of pumps	1		Operating temperature t A	°F	39.2
3	Nominal flow	US g.p.m.	0	Max / Min Operating Temperature mech. Seal	°F	120 / -10
4	Nominal head	ft	0	pH-value at t A		7
5	Static head	ft	0	Density at t A	lb/ft ³	62.4
6	Inlet pressure	psi	0	Kin. viscosity at t A	ft ² /s	1.689E-5
7	Environmental temperature	°F	68	Vapor pressure at t A	psi	14.5
8	Available system NPSH	ft	0	Altitude		0

Pump data									
9	Lubrication	Standard, Grease lubrication [Std]							
10	Execution								
11	Design	Horizontal		Impeller Ø	Max.	inch	5 3/4		
12	Operating speed	3500 rpm	Stages		1	designed	inch	5 3/4	
13	Suction nozzle	DN 65	/	PN 16	/	EN1092-1	Min.	inch	5 5/16
14	Discharge nozzle	DN 40	/	PN 16	/	EN1092-1	Nominal US g.p.m.		
15	Max. casing pressure	psi	174		Flow	Max-	US g.p.m.	211.3	
16	Max. working pressure	psi	51.8			Min-	US g.p.m.	79.3	
17	Impeller type	Radial impeller			Head	Nominal	ft		
18	Head H(Q=0)	ft	120			at Qmax	ft	55.2	
19	Max. shaft power	hp	5.2			at Qmin	ft	112.8	
20	Pump weight	kg			Shaft power	hp			
21	Total weight	lb	105.8		Efficiency	%			
					NPSH 3%	ft			

Materials			
Pump		Shaft Seal	
22			
23	Pump body	Stainless steel / AISI 316L	Single mechanical seal, without shaft sleeve
24	Impeller	Stainless steel / AISI 316L	Uniten 3K
25	SEAL HOUSING	Stainless steel / AISI 316L	Mechanical seal diameter
26	Wear ring	Stainless steel / AISI 316L	7/8 inch
27	Counterwear ring	Stainless steel / AISI 316L	1. Rotating ring
28	Rigid shaft coupling	Stainless steel / AISI 316L	Ceramic
29	Impeller locknut and washer	Stainless steel / AISI 316	2. Stationary ring
30	Tab	Stainless steel / AISI 316L	Carbon graphite resin impregnated
31	Fill/drain plugs	Stainless steel / AISI 316	3. Secondary seal
32			Fluorine rubber (FKM)
33			4. Springs
34			CrNiMo - Steel
35			5. Others
36			CrNiMo - Steel
37			Gaskets of the pump
38			Fluorine rubber (FKM)
39			
40			
41			

Motor data			
Electrical and dimensional data refer to IE3 motor			
42	Manufacturer	Lowara PLM	
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency	
44	Type	PLM 112R B5 4 kW	
45	Rated power	5.3641 hp	Rated current
46	Nominal speed	3468 rpm	13.6 A
47	Frame size	112R	Rated voltage
48	Weight	lb 55.1	220 V
			Service factor
			1
			Degree of protection
			IP55

Remarks	
49	
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52	

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Performance curve

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	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) η			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	3500
actual	5 3/4	79.3	211	147	119	89.5		5.24	5.03	Nominal flow	US g.p.m.	0
Min.	0	/	/	144	102	71.7		/	3.88	Nominal head	ft	0
Max.	5 3/4	/	/	147	119	89.5		/	5.03	Inlet pressure	psi	0
										Static head	ft	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water, pure [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



